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	APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,461		02/19/2004		Nick M. Miller IV	KENT 35835US1	4852
	116	7590	12/28/2005	EXAMINER		
	PEARNE &			PATEL, NITIN		
1801 EAST 9TH S SUITE 1200			EET		ART UNIT	PAPER NUMBER
	CLEVELAN		14114-3108		2673	

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/782,461	MILLER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Nitin Patel	2673					
The MAILING DATE of this communication app	<u> </u>						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 05 Oc	ctober 2005.						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
 4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 31-42 is/are allowed. 6) Claim(s) 1-30,43 and 44 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)	□. · -						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>7/9/2004</u>. 	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)					

Art Unit: 2673

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the how must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance. Examiner is not sure how the configuration bit is shown in drawings could control rows and columns as claimed in independent claims, wherein each configuration bit is exclusively associated with one or more of said plurality of display outputs such that said

Art Unit: 2673

row/column setting of said configuration bit is used to configure all of said associated one or more display outputs for driving either rows or columns of the display.

2. Examiner still would like to urge applicant to explain more about how the independent claims is enable with the language states each configuration bit is associated with rows and columns to set to display outputs fro driving rows and columns.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3,6-9,12-15,18-25,27-30,43,44 is rejected under 35 U.S.C. 102(e) as being anticipated by Awamoto et al., (U.S. patent No. 6,452,590).

As per claims 1,7,18,27,28, 30,43 Awamoto shows a display driver (In fig.3a element 29) comprising: a plurality of display outputs each for outputting a drive voltage to a row or a column of a display (In fig.3a element 33); and a plurality of configuration bits each having a row/column setting (In fig.3a output of driver block 33), wherein each configuration bit is exclusively associated with one or more of said plurality of display outputs such that said row/column setting of said configuration bit is used to configure all of said associated one or more display outputs for driving either rows or columns of

the display(In col.7 lines 26-50 and col.9 lines 1-10, 50-67).

Awamoto shows some number of said display outputs associated with one configuration bit can be configured to drive rows of the display and another number of said display outputs associated with another configuration bit can be configured to drive columns of the display independent of each other (In col.7 lines 30-38).

As per claim 2,3,6,8,12,14,15,19-21,22-25,29,44 Awamoto shows at least one display output is set to drive a row of the display, said drive voltage output by said display output is set independent of the total number of rows in the display (in fig.3b element 32).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4,5,10,11,16,17,26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Awamoto (U.S. Patent no. 6,452,590) in view of Yang (U.S. Patent No. 6,154,190).

As per claims 4,5 Awamoto does not specifically teach a bistable liquid crystal display includes a chiral nematic liquid crystal material.

Yang shows a display having a bistable liquid crystal display includes a chiral nematic liquid crystal material property in a display (In abstract and In fig.3a and 3b).

Art Unit: 2673

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have combined the teaching of Yang's into display device of Awamoto's because it would have addressed a large number of lines on display simultaneously during the preparation step.

Allowable Subject Matter

5. Claims 31-42 are allowed, as indicated in previous office action.

Response to Arguments

6. Applicant's arguments with respect to claims 1-30,43,44 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Patel whose telephone number is 571-272-7677. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H. Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/782,461 Page 6

Art Unit: 2673

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NP

December 26, 2005